Physikalisches Institut Molekül- und Nanophysik
Albert-Ludwigs-Universität Freiburg Prof. Frank Stienkemeier

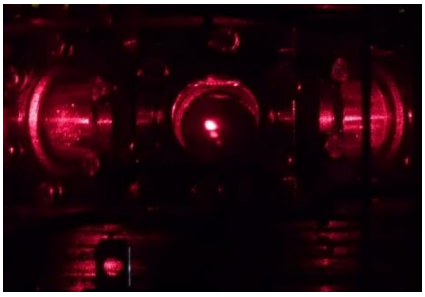
PhD position

The DFG-funded **International Research Training Group "Cold Controlled Ensembles of Atoms and Molecules" (www.irtg-coco.uni-freiburg.de)**

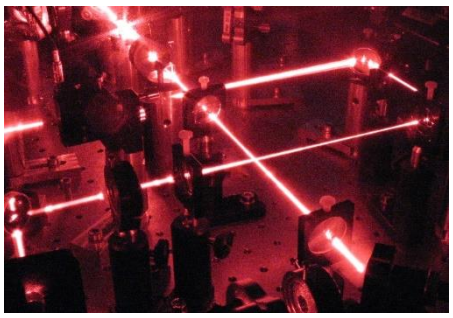
at the University of Freiburg offers

1 PhD Position

in the field of **Cold Collisions.**



The experimental project is aimed at studying quantum-state-controlled Penning collisions between lithium atoms and metastable helium atoms at low collision energies, e.g., to study the influence of electron-spin polarization on the reaction rate and to observe quantum resonance effects. For this, we use an experimental apparatus which consists of a metastable helium discharge source and a magneto-optical trap (MOT) for ultracold lithium atoms.



We are looking for excellent MSc graduates with a strong background in experimental Atomic and Molecular Physics or Physical Chemistry. Experience in the use of diode lasers and high-vacuum equipment is advantageous.

The PhD program, a collaboration with the University of British Columbia (UBC), Canada, offers dual supervision by researchers from both universities and an extended stay at the UBC in Vancouver. No tuition fees. The salary will be determined in accordance with TV-L E13 (75%).

Documents should be sent to irtg-coco-coordination@physik.uni-freiburg.de as a single pdf-file including a letter of motivation, a CV, a list of publications (if available), certificates of the university degree (with grades) and transcripts of record, master/diploma certificate (with grades) and the contact details of at least two referees. Applications should be submitted until April 15, 2018.

For further information please contact Dr Katrin Dulitz (katrin.dulitz@physik.uni-freiburg.de).

The University of Freiburg seeks to increase the number of female scientific faculty members and therefore strongly encourages qualified women to apply for the position. The university is committed to provide a family-friendly workplace. In case of equal qualification, persons with disabilities (Schwerbehinderte) will be given preference.